

1/19

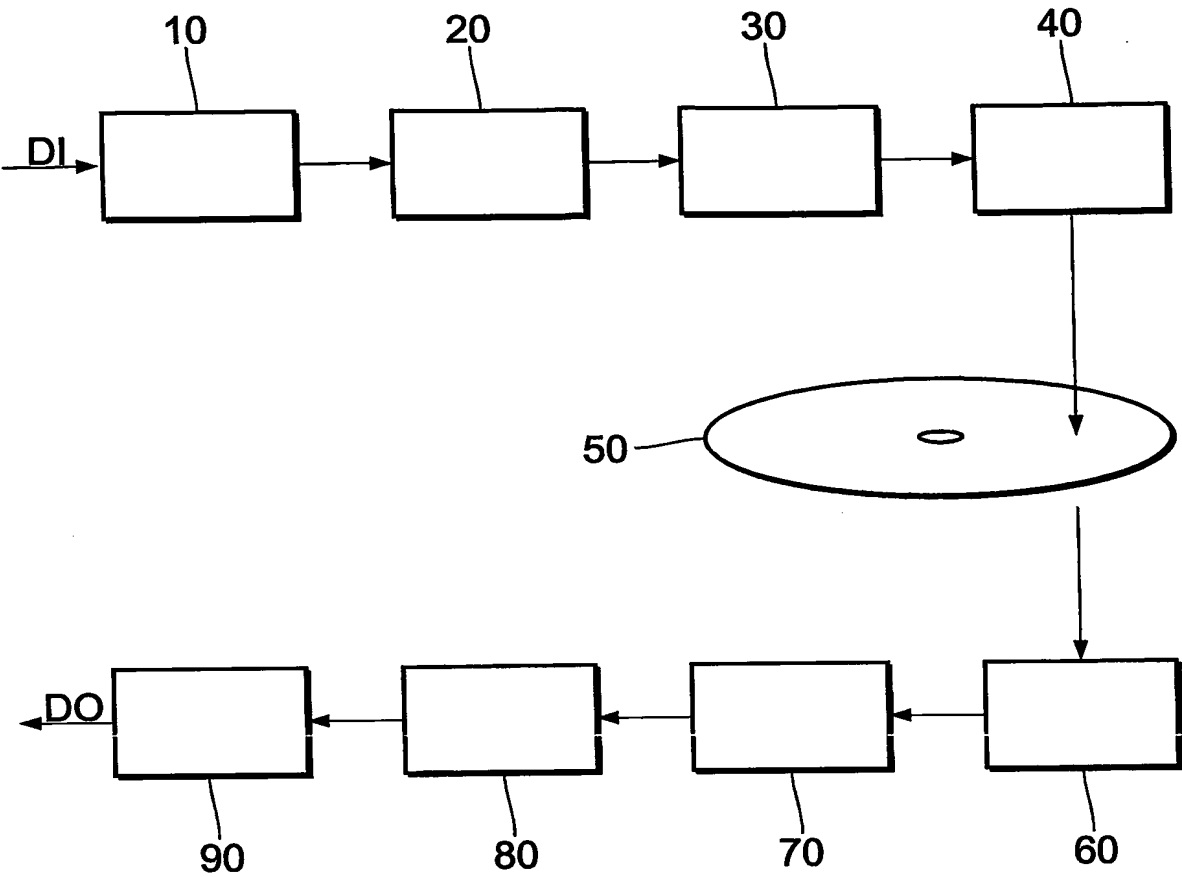


FIG.1

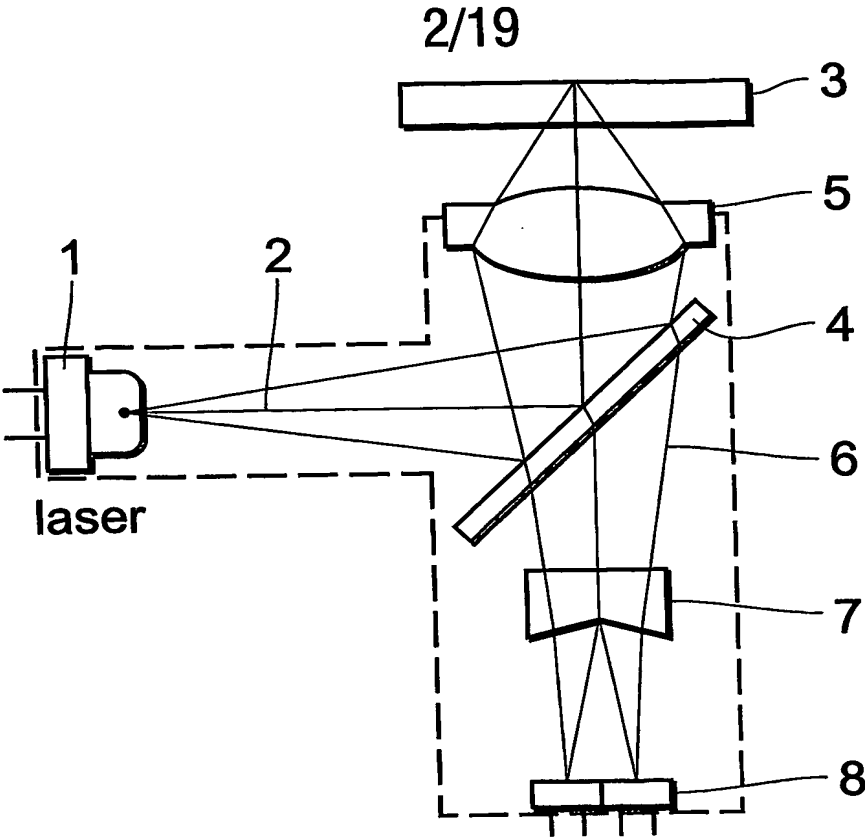


FIG.2

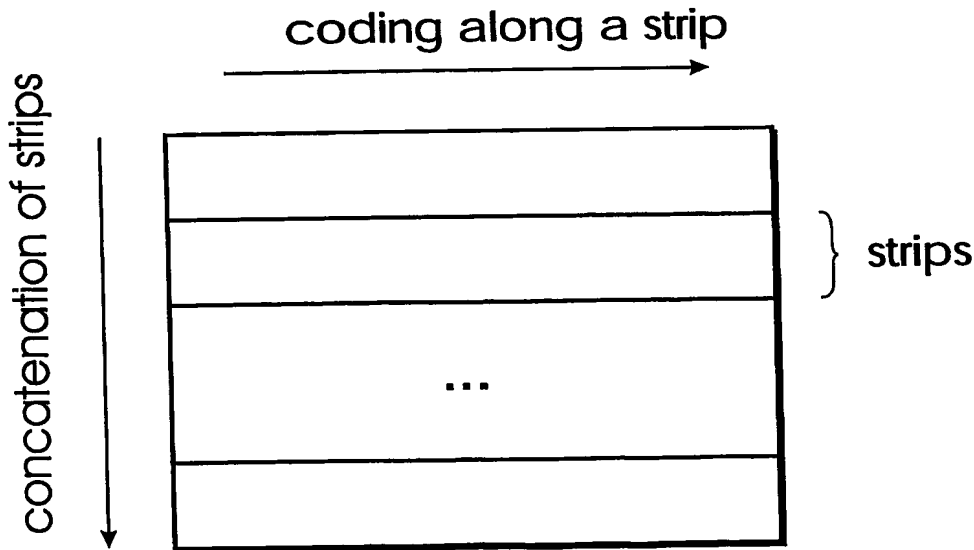


FIG.3

3/19

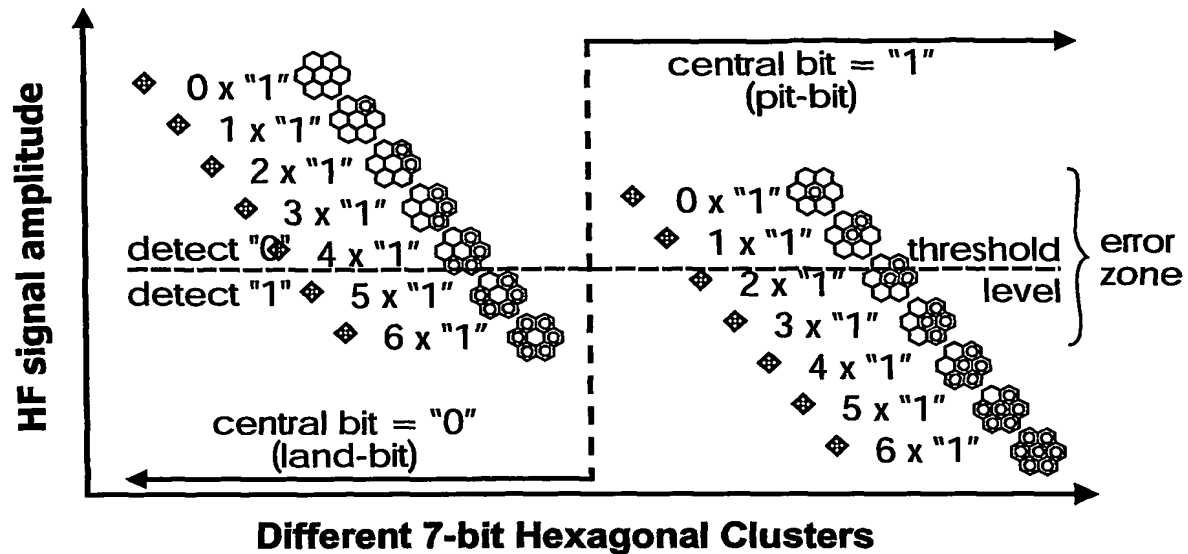


FIG.4

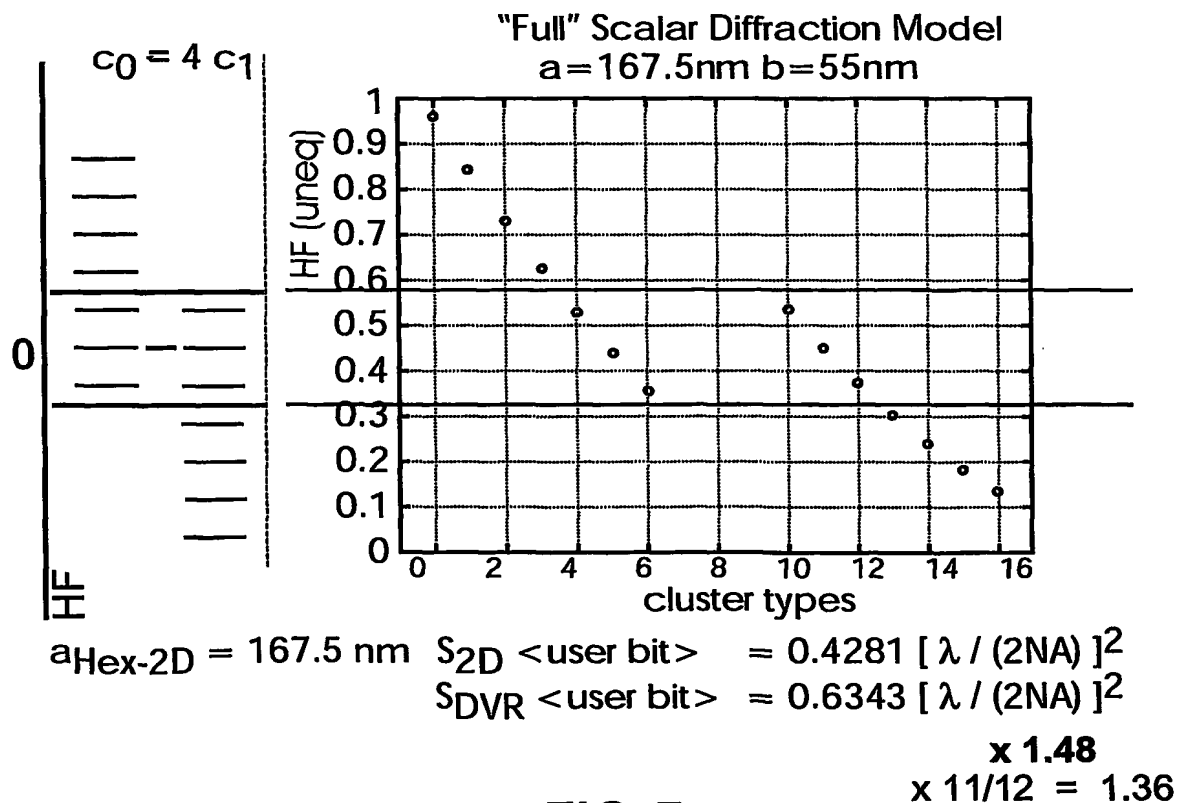
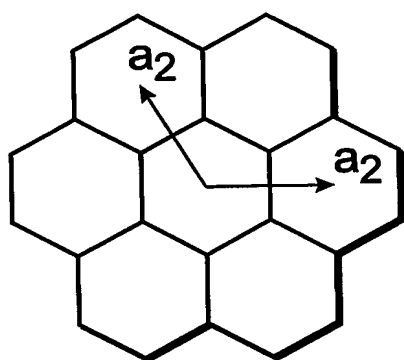


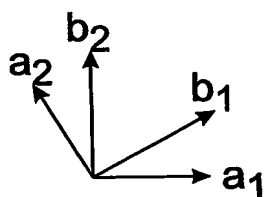
FIG.5

4/19



$$\begin{aligned} a_1 &= [10] & |a_1| &= 1 \\ a_2 &= [01] & |a_2| &= 1 \end{aligned}$$

FIG.6a



$$\begin{aligned} a_i \cdot b_j &= \delta_{i,j} \\ |b_1| &= |b_2| = 1.155 \end{aligned}$$

FIG.6b

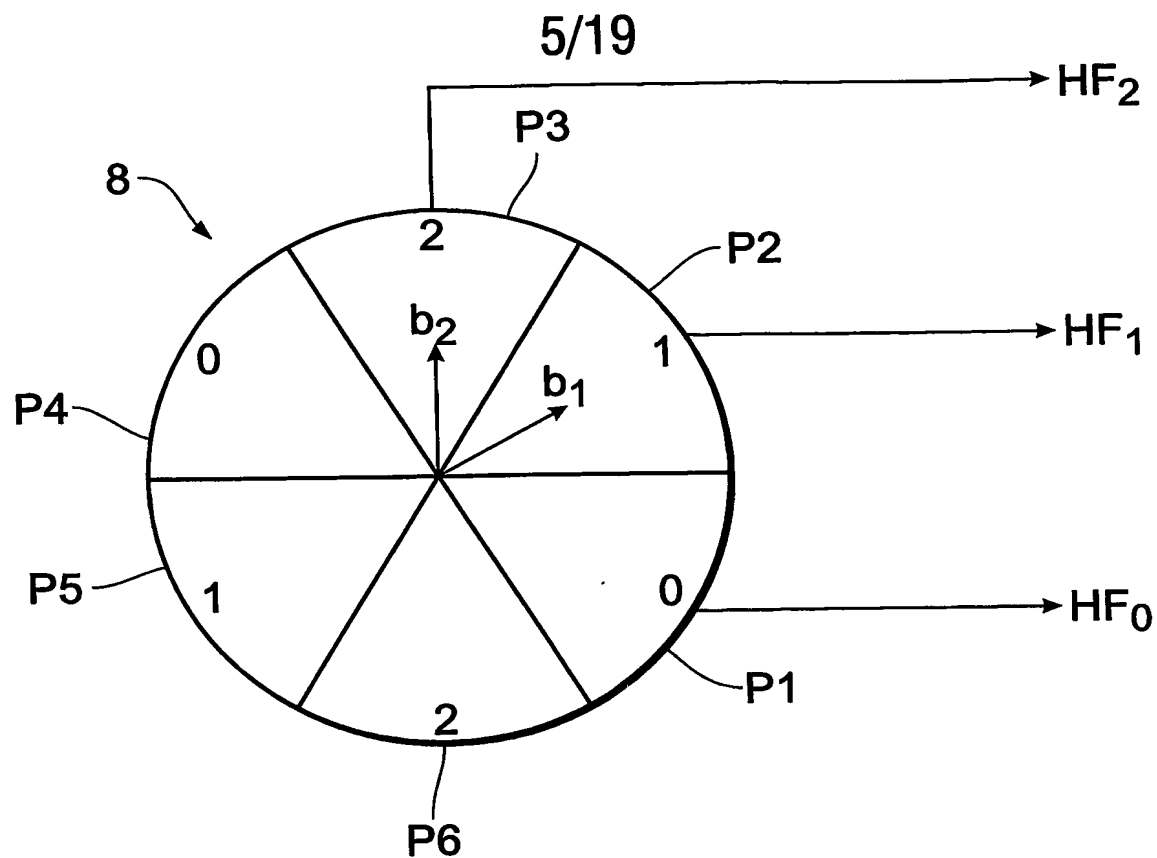
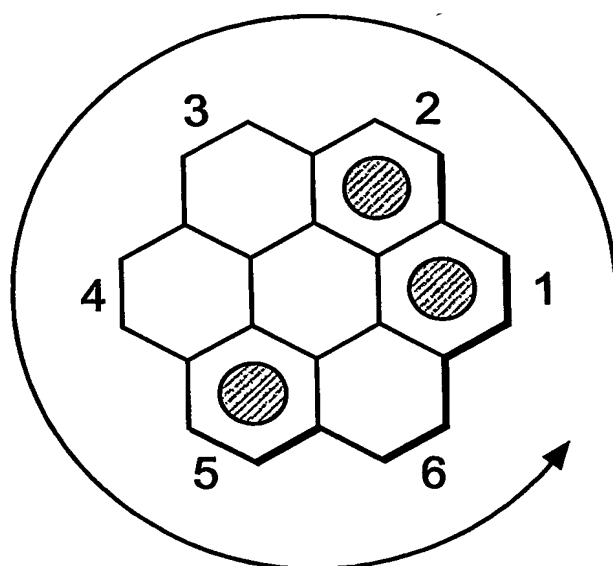
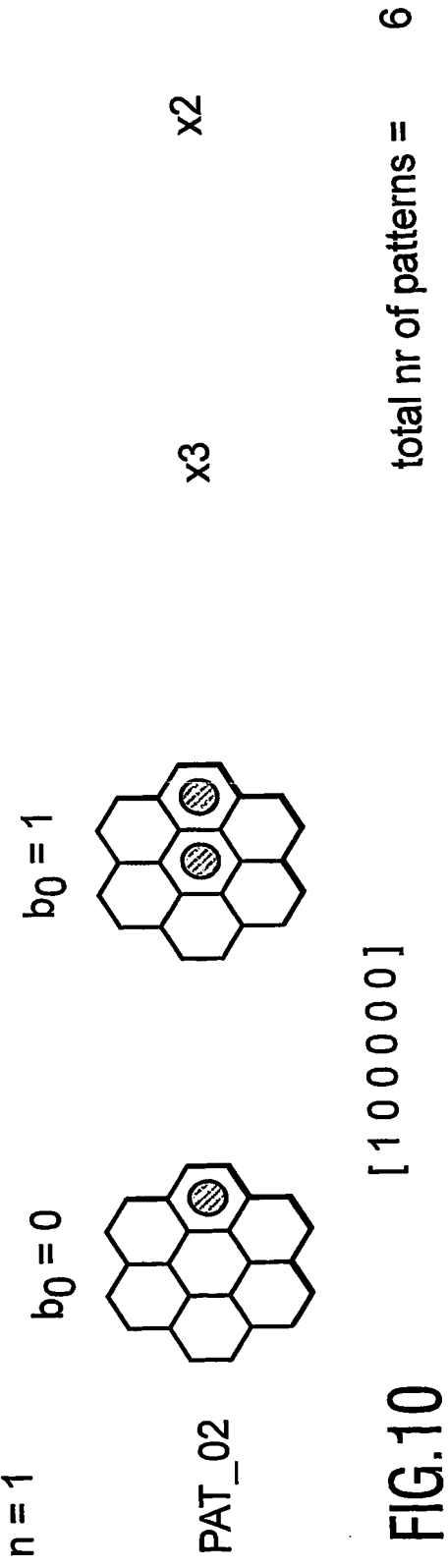
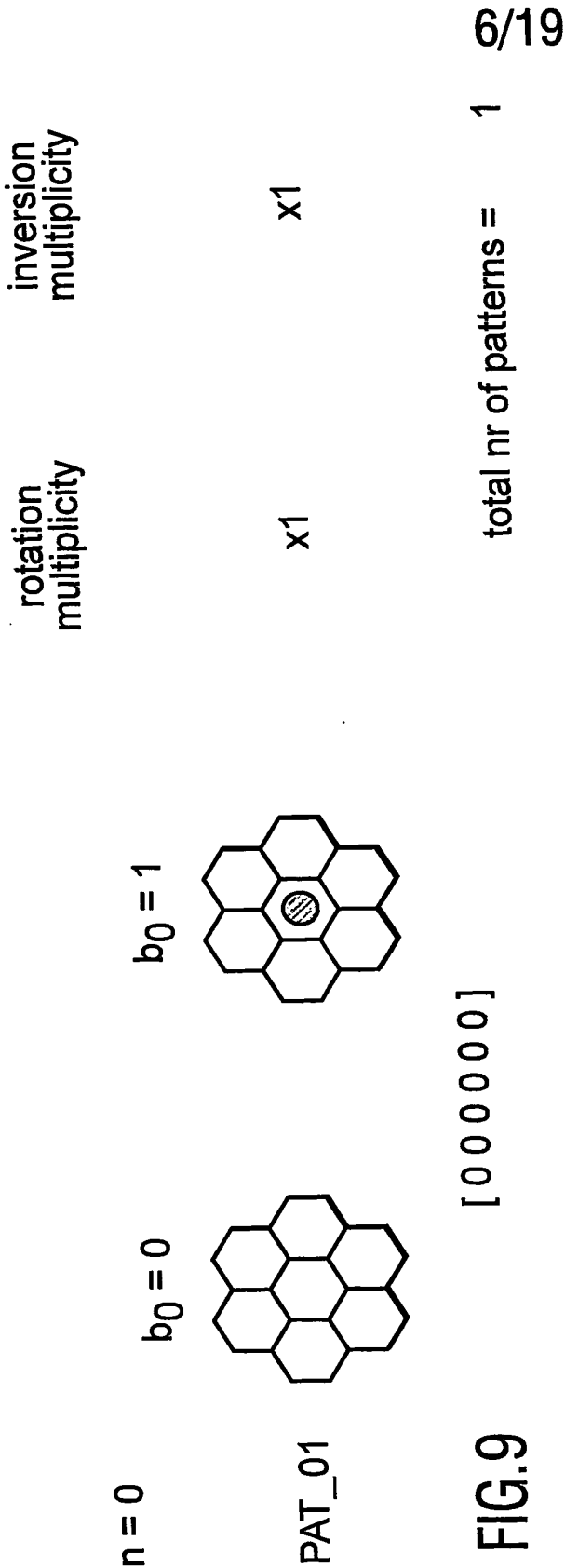


FIG. 7



[1 1 0 0 1 0]

FIG. 8



7/19

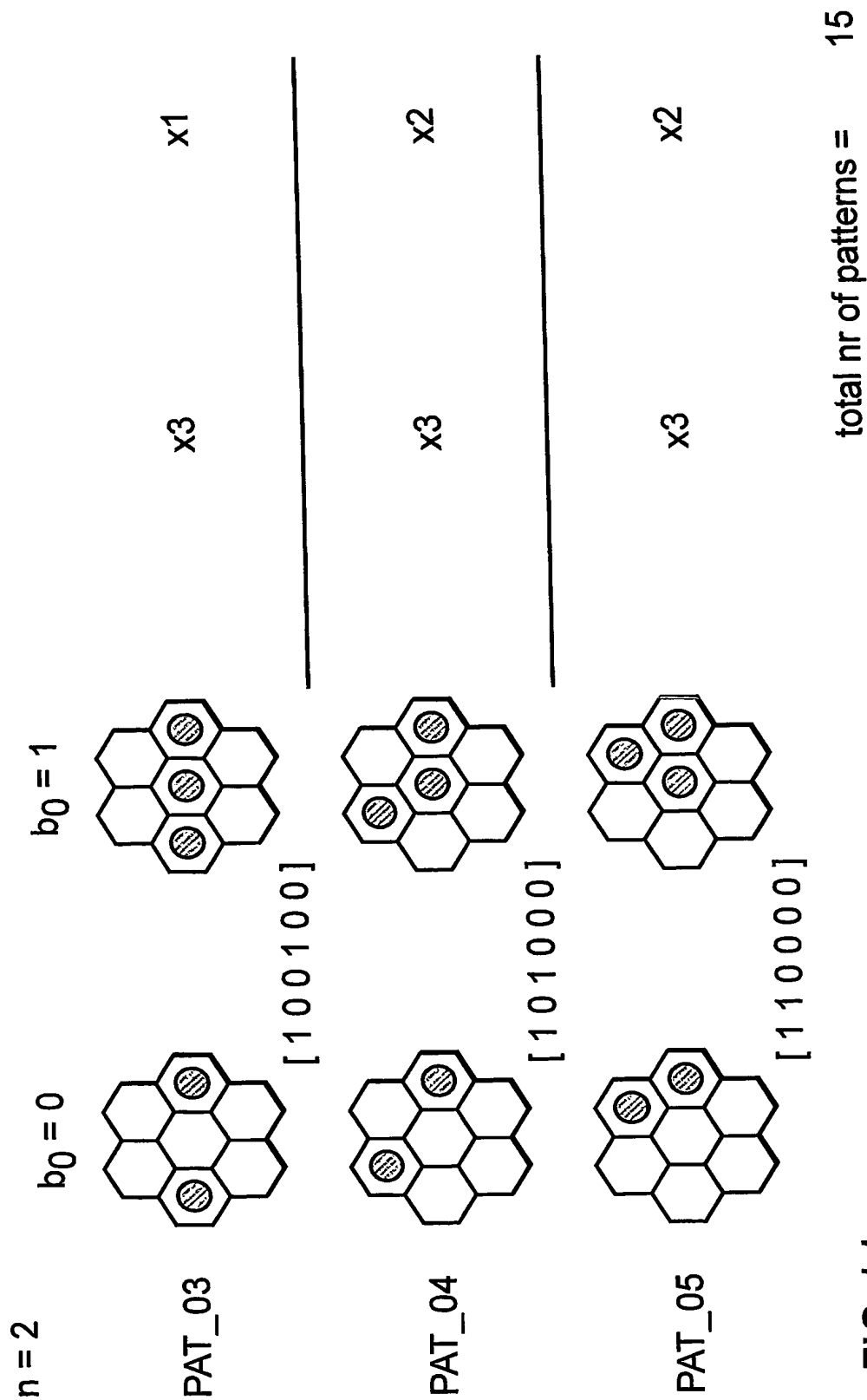
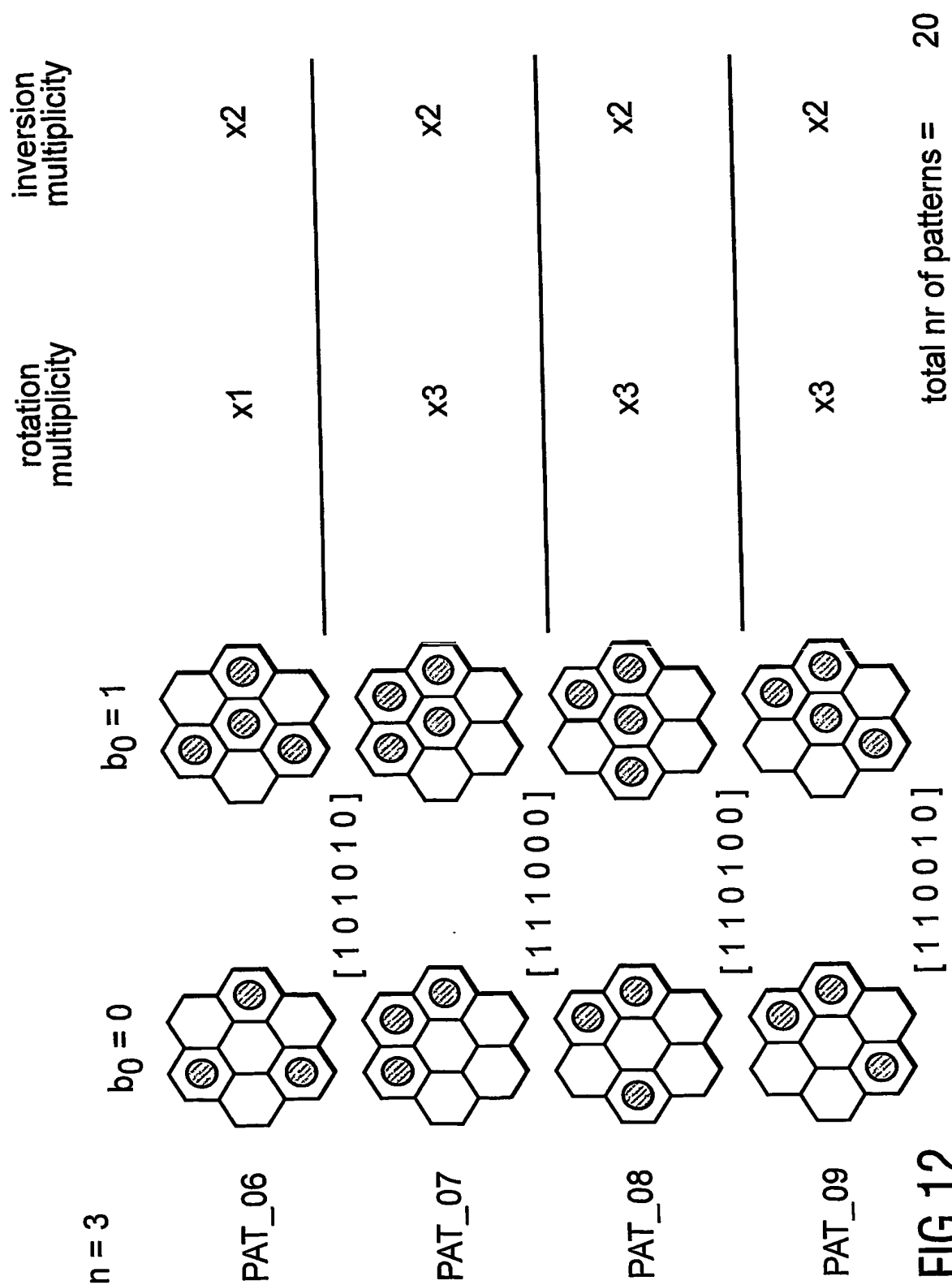


FIG.11



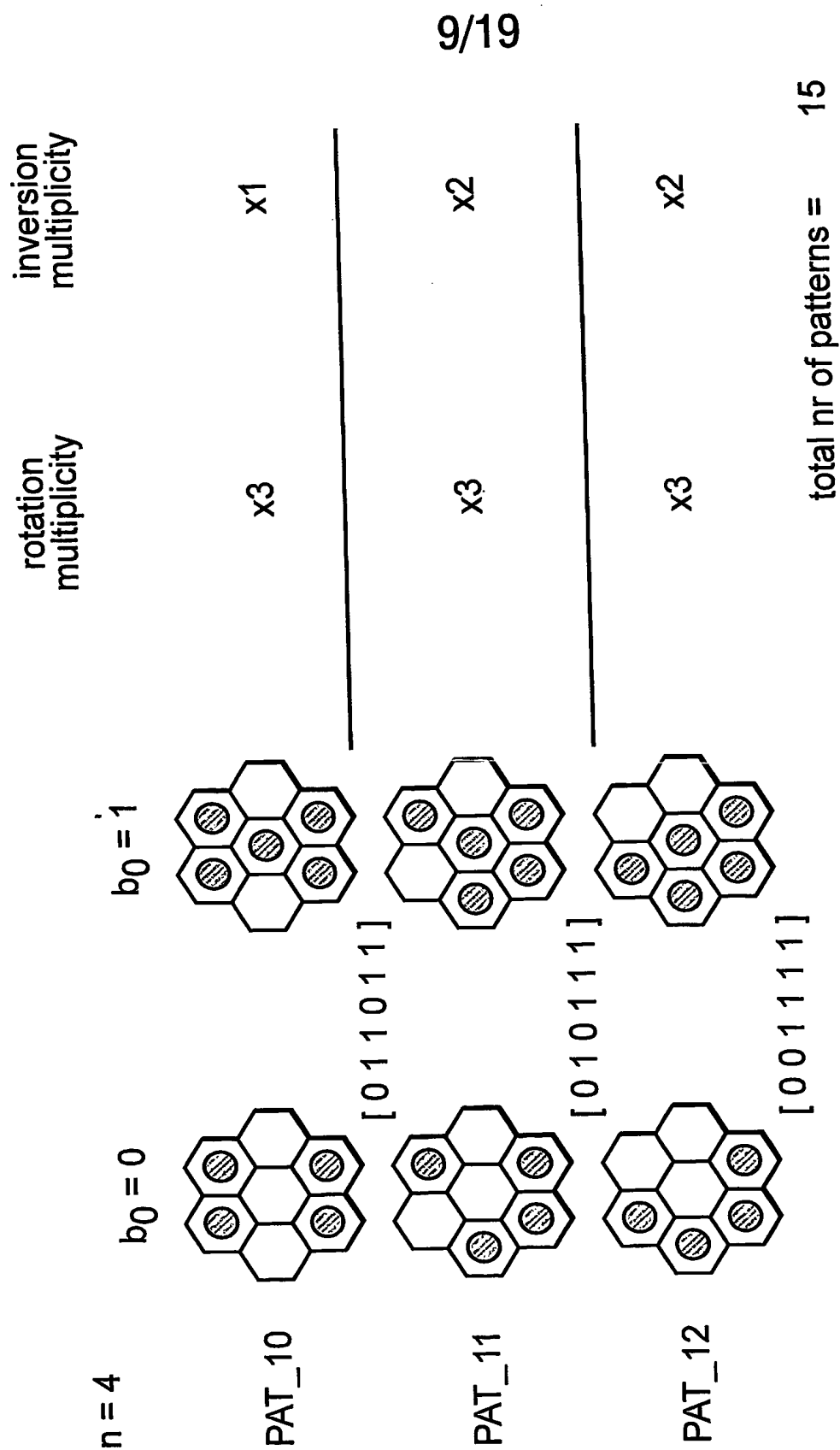


FIG.13

rotation multiplicity	inversion multiplicity
x3	x2
total nr of patterns = 6	

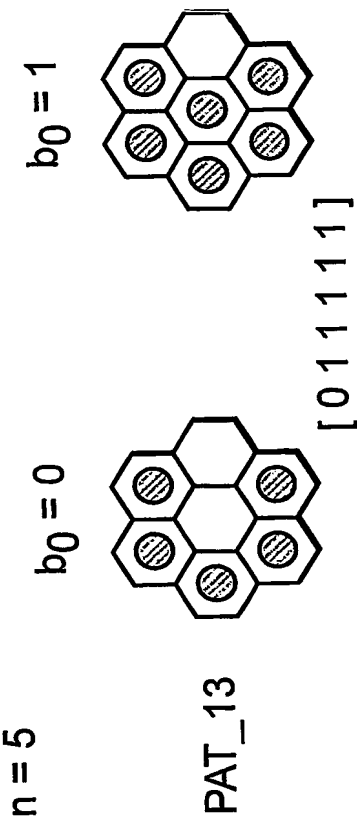


FIG.14

rotation multiplicity	inversion multiplicity
x1	x1
total nr of patterns = 1	

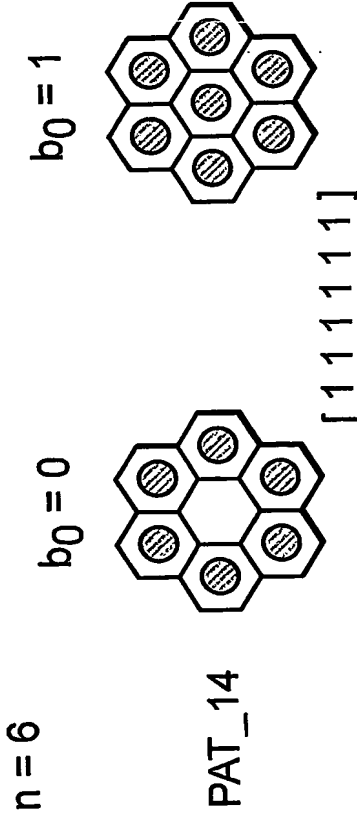


FIG.15

11/19

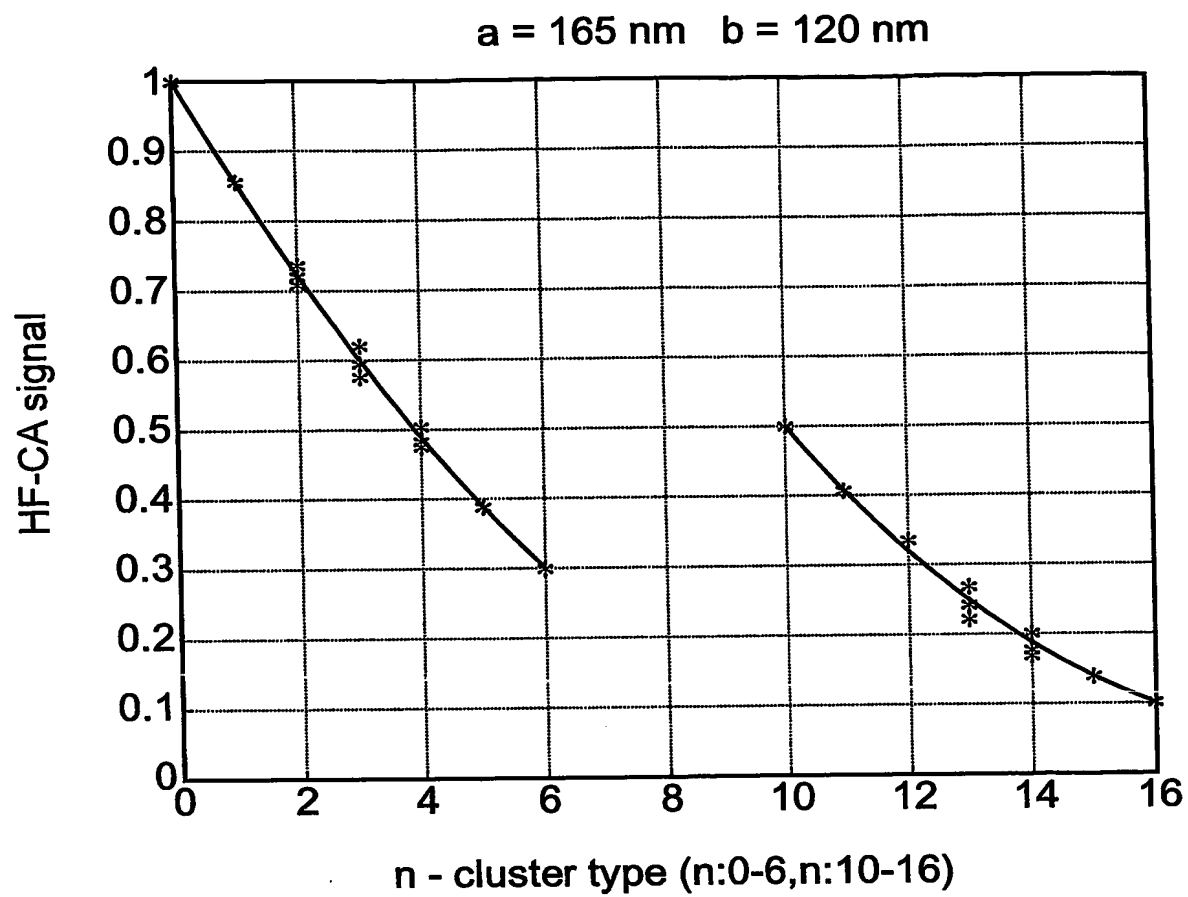


FIG.16

12/19

CA-Signals

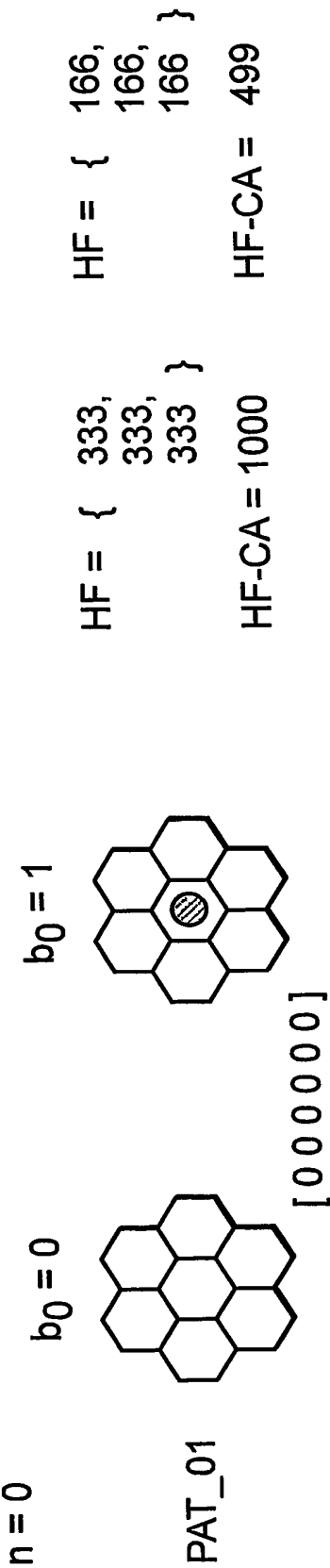


FIG.17

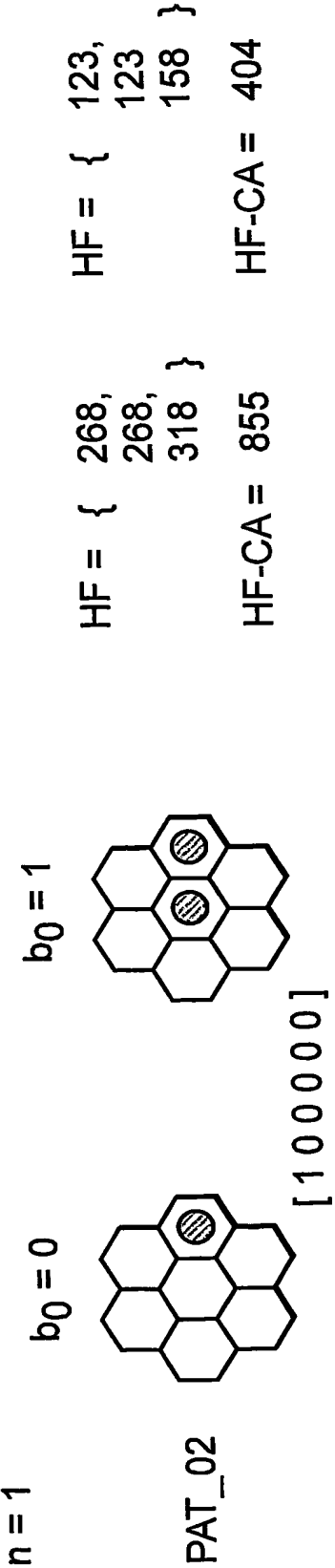


FIG.18

CA-Signals

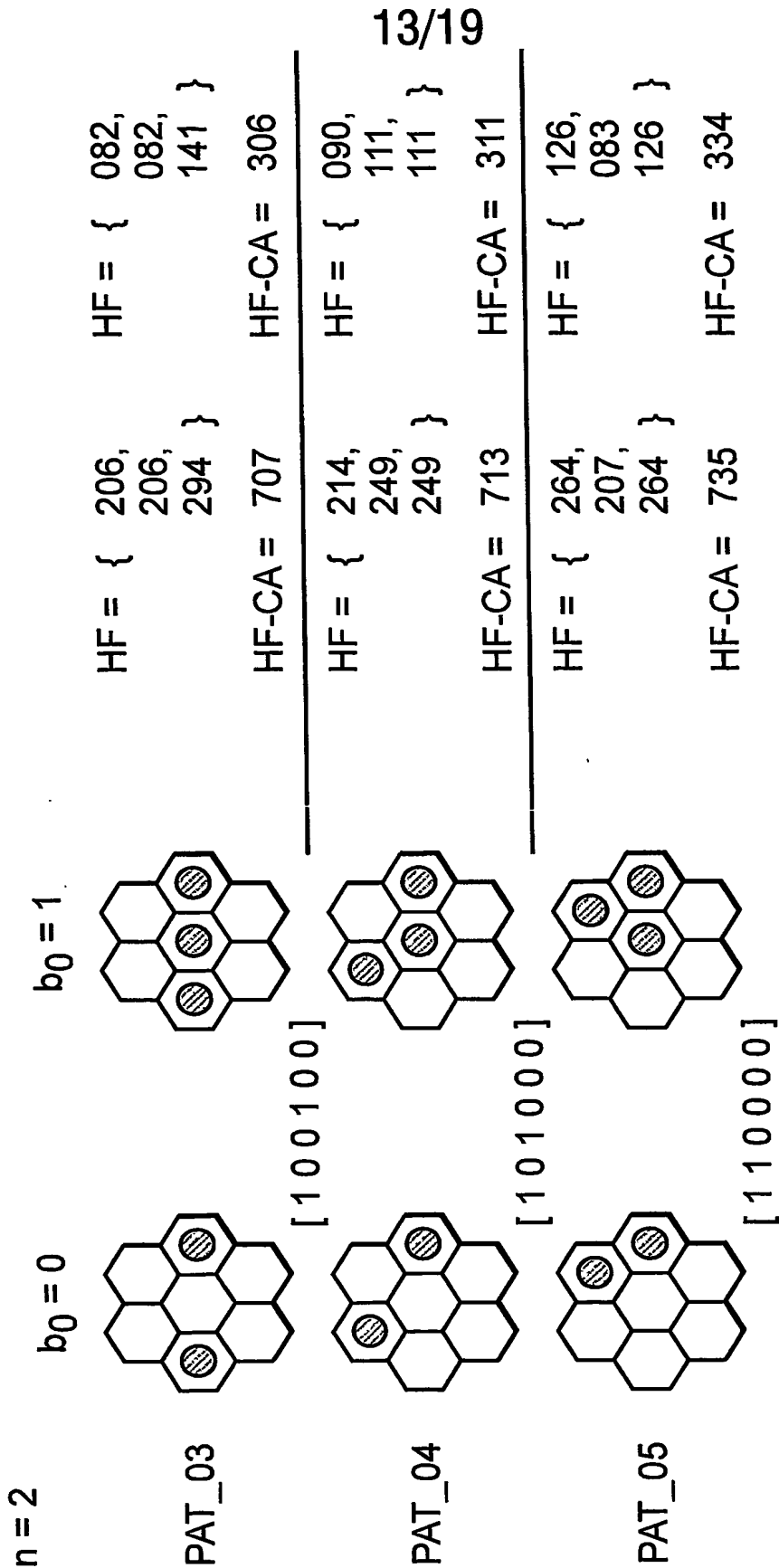


FIG.19

CA-Signals

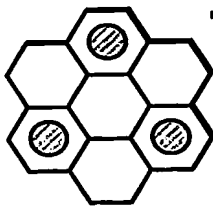
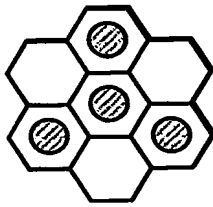
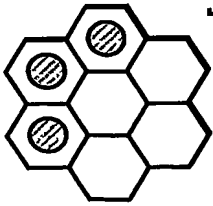
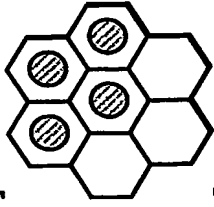
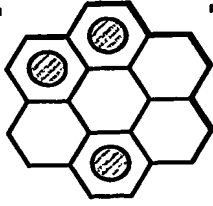
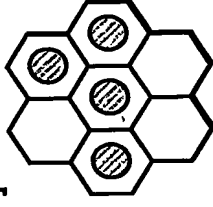
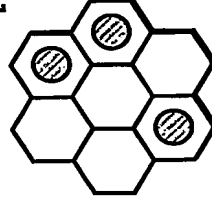
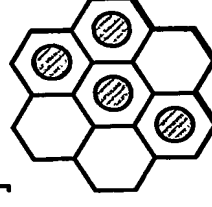
n = 3	b ₀ = 0		b ₀ = 1		HF = { 191, 191, 192 }	HF = { 074, 074, 074 }	
		[101010]		HF-CA = 574	HF-CA = 223		
	PAT_06	b ₀ = 0		b ₀ = 1		HF = { 221, 198, 199 }	HF = { 104, 081, 081 }
			[111000]		HF-CA = 618	HF-CA = 267	
PAT_07	b ₀ = 0		b ₀ = 1		HF = { 198, 156, 236 }	HF = { 081, 054, 105 }	
		[110100]		HF-CA = 591	HF-CA = 240		
PAT_08	b ₀ = 0		b ₀ = 1		HF = { 237, 156, 198 }	HF = { 105, 054, 081 }	
		[110010]		HF-CA = 591	HF-CA = 240		
PAT_09	b ₀ = 0		b ₀ = 1				

FIG. 20

FIG.20

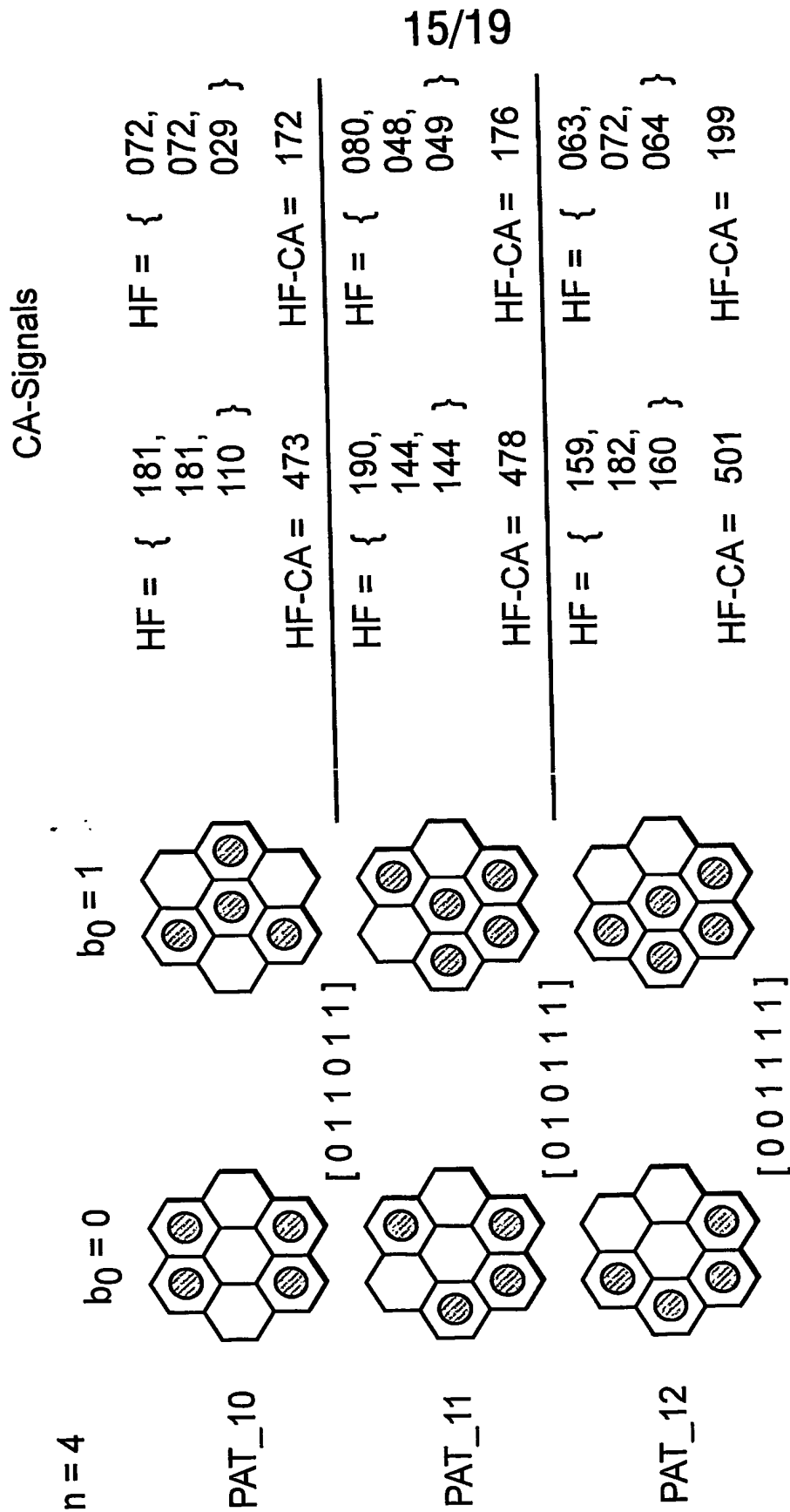


FIG.21

CA-Signals

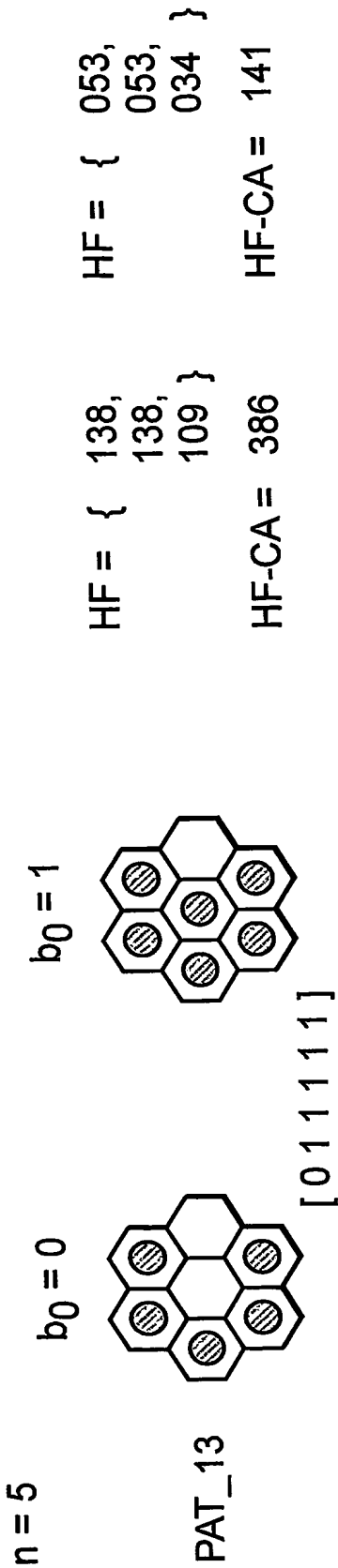


FIG.22

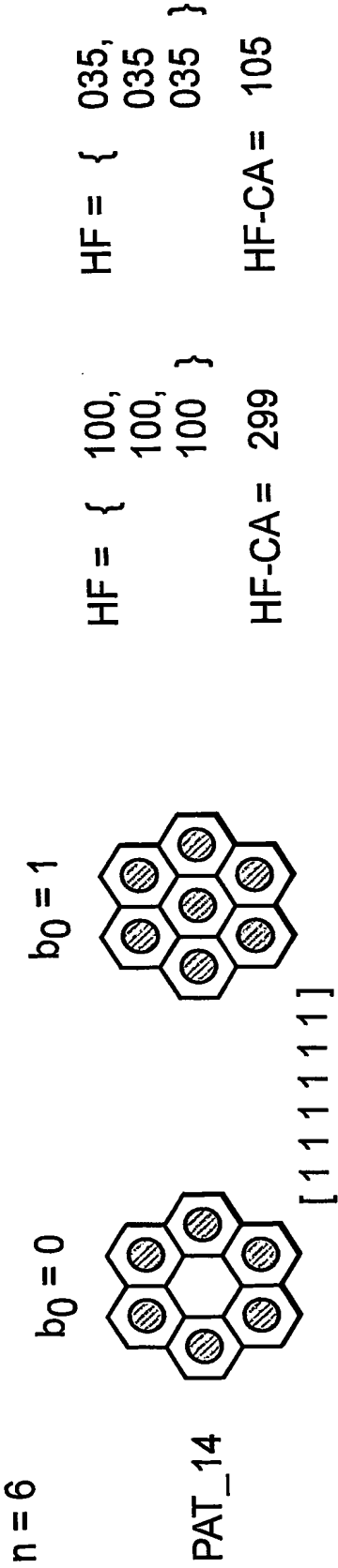


FIG.23

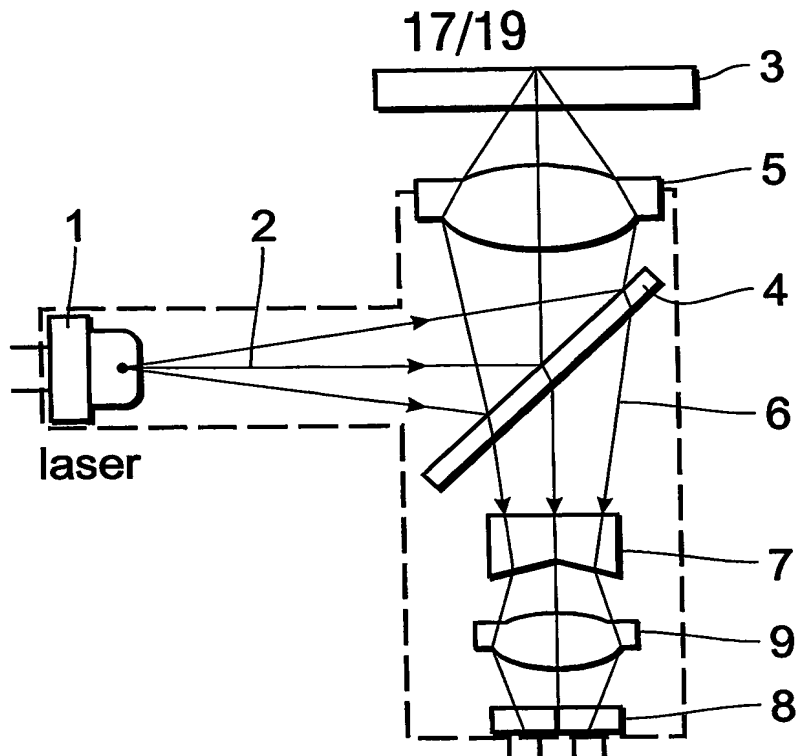


FIG.24

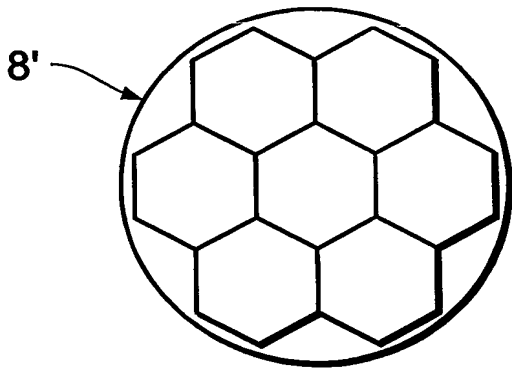


FIG.25

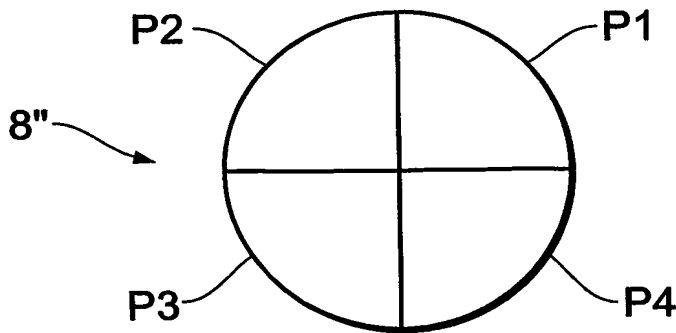


FIG.26

18/19

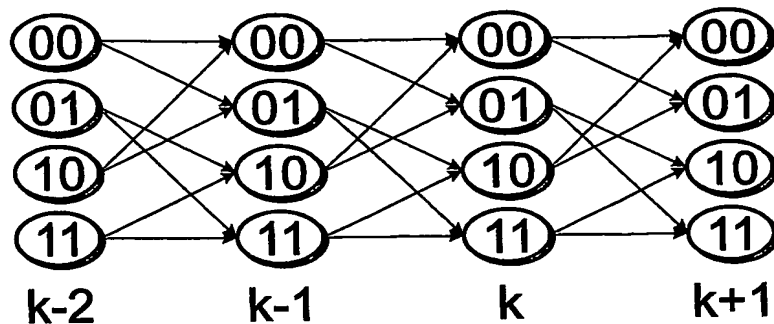


FIG. 27

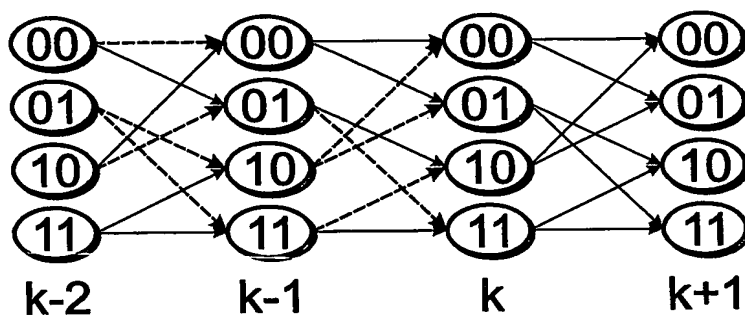


FIG. 28

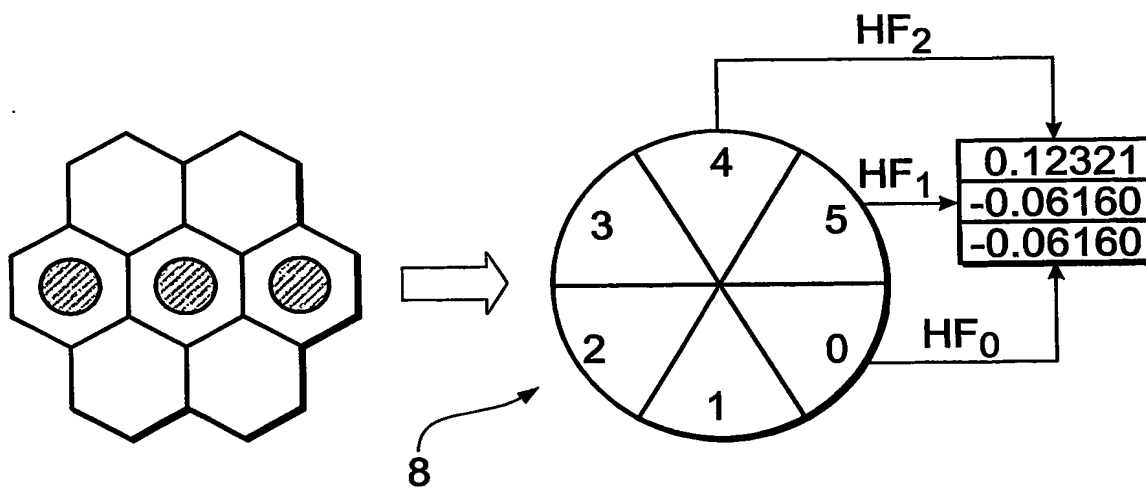


FIG. 29

19/19

Class #	Central Bit	# outer bits	pattern description	# members	Vector Components			Threshold
					1	2	3	
000	0	0	000	1	0.00	0.00	0.00	1.00
001	0	1	001,100	6	0.10	-0.05	-0.05	0.09
002	0	2	100+1	12	0.06	0.06	-0.12	0.74
003	0	2	101	3	0.18	-0.09	-0.09	0.71
004	0	3	100+1+1	8	0.04	-0.02	-0.02	0.62
005	0	3	101+1	12	0.13	0.01	-0.14	0.59
006	0	4	101+2	6	0.05	-0.02	-0.02	0.50
007	0	4	101+1+1	6	0.09	-0.04	-0.05	0.48
008	0	4	101+101	3	0.09	0.07	-0.16	0.18
009	0	5	101+2+1	6	0.04	0.03	-0.06	0.39
010	0	6	101+2+2	1	0.00	0.00	0.00	0.30
100	1	0	010	1	0.00	0.00	0.00	0.50
101	1	1	110,011	6	0.08	-0.04	-0.04	0.40
102	1	2	110+1	12	0.05	0.04	-0.09	0.33
103	1	2	111	3	0.12	-0.06	-0.06	0.31
104	1	3	110+1+1	8	0.04	-0.02	-0.02	0.27
105	1	3	111+1	12	0.08	0.02	-0.09	0.24
106	1	4	111+2	6	0.02	-0.01	-0.01	0.20
107	1	4	111+1+1	6	0.06	-0.03	-0.03	0.18
108	1	4	111+111	3	0.05	0.05	-0.10	0.17
109	1	5	111+2+1	6	0.02	0.02	-0.03	0.14
110	1	6	111+2+2	1	0.00	0.00	0.00	0.10

FIG.30